

Chemical Protective Clothing and Gear



Battle Dress Overgarment (BDO)

Suit, Contamination Avoidance, Liquid Protective (SCALP)



Chemical Protective Undergarment (CPU)



Green or Black Vinyl Overshoes (GVO/BVO)



Chemical Protective Glove Set



Chemical Biological (CB) Protective Equipment Bag



Chemical Protective Helmet Cover



Firefighter's Integrated Suit-Combat (FIS-C)

Mission

Protect Soldiers from chemical and biological contamination in battle and other operations.

Description and Specifications

The **Chemical Protective Undergarment (CPU)** is a two-piece “form-fitting” design to be worn under armor or aviation uniforms to provide protection from chemical agents. The CPU is snug-fitting and air permeable. In addition, the CPU is also worn with the Toxic Agent Ensemble by Department of the Army civilians, who are engaged in routine demilitarization of missiles and deploy surveillance of munitions that contain toxic agents. The **U.S. Army Firefighter’s Integrated Suit-Combat (FIS-C)** protects military firefighters in accordance with National Fire Protection Association standards and provides chemical and biological (CB) protection during firefighting. The FIS-C consists of proximity coat and trousers, gloves, helmet, standard firefighting boots, Nomex balaclava, self-contained breathing apparatus with chemical kit, Joint Service Lightweight Integrated Suit Technology (JSLIST) overgarment, CB gloves/liners, and carry bag.

Suit, Contamination Avoidance, Liquid Protective (SCALP) provides supplemental protection when worn over standard chemical protective garments. SCALP consists of a jacket, trousers, and two footwear covers worn over the chemical protective overgarment and overboots. All components provide protection from liquid contamination for up to one hour. The **JSLIST** is the standard CB garment worn by Soldiers with the **Chemical Protective Helmet Cover, Butyl Rubber Gloves, and Green or Black Vinyl Overboots (GVO/BVO)**.

The **CB Protective Equipment Bag** is designed to consolidate and transport the CB Protective Ensemble. It is made of an abrasion-resistant nylon and incorporates a unique closure system, using hook-and-loop closures, two compression straps, and quick release buckles for protection from the outside environment. Web loops have been stitched to the carrier to accept cargo tie-down straps for attachment to the current and developmental

load carrying equipment. The **Chemical Protective Helmet Cover** is a one-piece configuration made of butyl rubber-coated nylon cloth and gathered at the opening by elastic webbing enclosed in the hem. It provides any standard helmet with protection from chemical and biological contamination. The **Chemical Protective Glove Set** includes the impermeable butyl rubber gloves with cotton knit liners, which protect the hands in a chemical threat environment. The impermeable butyl gloves are manufactured in right and left hand, five-fingered configurations, and shaped to follow the natural curvature of the hand in a relaxed position, while the inner permeable cotton five-finger gloves are ambidextrous. GVO/BVO are worn over standard combat boots and provide chemical protection when needed and moisture protection during wet weather. GVO/BVO are made of an impermeable molded vinyl plastisol and have a slip-resistant outsole design. Elastic loops are pulled over three metal fasteners to close the gusset expansion after donning. The GVO/BVO provides 24 hours of protection against all known CB agents after a maximum wear of 60 days.